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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,701	09/17/2003	Sung Uk Moon	242937US90	3971
22850 7590 07/10/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER WENDELL, ANDREW	
			ART UNIT 2618	PAPER NUMBER
			NOTIFICATION DATE 07/10/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/663,701	<b>Applicant(s)</b> MOON ET AL.	
	<b>Examiner</b> Andrew Wendell	<b>Art Unit</b> 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 June 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 2, 4 and 5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4 and 5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION*****Double Patenting***

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 4 and 5 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 3-5 of U.S. Patent Application No. 2004/0058696. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the application are broader than the ones in the U.S. Patent Application No. 2004/0058696. Therefore, the claims read on the application.

Regarding claim 4, U.S. Patent Application No. 2004/0058696 teaches a radio network controller supporting multicast communication, wherein the radio network controller performs a predetermined processing on a predetermined number of response signals, the predetermined number of response signals being transmitted from

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at least one first mobile station and responding to a control signal for a multicast group; and the radio network controller performs processing on only the predetermined number of response signals, and any following response signal is unprocessed by the radio network controller, the following response signals being transmitted from at least one second mobile station (See claims 3 and 4).

Regarding claim 5, claim 5 reads on claim 5 of U.S. Patent Application No. 2004/0058696.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-2 and 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gosselin (WO 01/65885) in view of Beckmann et al. (US Pat Pub# 2003/0022683) and further in view of Jellema et al. (US Pat# 6,707,900).

Regarding claim 1, Gosselin's multicasting communication network teaches a base station 30 (Figs. 1-3) supporting multicast communication, the base station comprising a response signal relay configured to transfer response signals transmitted from a plurality of mobile stations 40 (Figs. 1-3) to a radio network controller (not shown, but in a cellular system (page 7 lines 8-32) it is known to be part of the make of a

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communication system), the response signals responding to a control signal for a multicast group (Page 4 line 30-Page 5 line 15). Gosselin fails to teach a predetermined number of response signals and clearly showing a radio network controller.

In the same field of endeavor, Beckmann et al. transmitting multicast messages in a radio system teaches a base station BS (Fig. 1) supporting multicast communication, the base station comprising a plurality of mobile stations UE1-5 (Fig. 1), a radio network controller RNC (Fig. 1), and a control signal for a multicast group (Sections 0007-0013 and 0049-0054)

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate a radio network controller as taught by Beckmann et al. into Gosselin's multicasting communication network in order to transmit messages with little expenditure and reduce load (Section 0004).

Both Beckmann and Gosselin fail to teach a predetermined number of response signals.

Jellema et al. dynamic load limiting teaches wherein the response signal relay transfers only a predetermined number of response signals to the radio network controller, and any following response signal is retained (Fig. 2 and Col. 2 lines 60-67).

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate a predetermined number of response signals as taught by Jellema et al. into a radio

network controller as taught by Beckmann et al. into Gosselin's multicasting communication network in order to avoid overloaded conditions and have a more efficient system (Col. 1 lines 22-30).

Regarding claim 2, Jellema further teaches wherein the predetermined number is one (Fig. 2, step 26, the value could be set to one or any number).

Regarding claim 4, apparatus claim 4 is rejected for the same reason as apparatus claim 1 since the recited elements would perform the claimed steps.

Regarding claim 5, apparatus claim 5 is rejected for the same reason as apparatus claim 2 since the recited elements would perform the claimed steps.

***Response to Arguments***

Applicant's Remarks	Examiner's Response
"As such, neither Gosselin, Bechmann nore Jellema alone or in combination describe a base station having a response signal relay for transferring response signals which correspond to a multicast control signal provided to a plurality of mobile stations of the multicast group in which the response signal transfers only a predetermined number of response signals to a radio network controller and any following response signals being	Gosselin does teach the response signals (response from wireless communication devices indicating receiving page message for multicast group, Page 4 line 30-Page 5 line 15) responding to a control signal (paging command from base station to wireless devices in multicast group, Page 4 line 30-Page 5 line 15).

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retained as recited in Applicants' Claim 1 or any claim depending therefrom."	
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***Conclusion***

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Wendell whose telephone number is 571-272-0557. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Andrew Wendell  
Examiner  
Art Unit 2618

6/13/2007



**NAY MAUNG**  
SUPERVISORY PATENT EXAMINER